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PATENT
Customer No. 22,852
Attorney Docket No. 08350.1649-02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
James WEBER et al.) Group Art Unit: 3747
)
Application No.: 10/733,570) Examiner: Mahmoud Gimie
)
Filed: December 12, 2003) Confirmation No. 1629
)
For: AIR AND FUEL SUPPLY SYSTEM)
FOR COMBUSTION ENGINE)

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(c)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(c), Applicants bring to the attention of the Examiner the following information and the documents identified on the attached form PTO/SB/08.

Copies of the listed foreign and non-patent literature documents are attached. The attached documents include copies of the English language abstracts and/or translations indicated on the Form PTO/SB/08. Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

08/01/2006 JADD01 00000010 10733570
01 EP 1806 180.00 DP

This Information Disclosure Statement is being filed after the events recited in Section 1.97(b) but, to the undersigned's knowledge, before the mailing date of either a Final action, Quayle action, or a Notice of Allowance. Under the provisions of

37 C.F.R. § 1.97(c), this Information Disclosure Statement is accompanied by a fee of \$180.00 as specified by Section 1.17(p).

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim of this application, and Applicants determine that the cited documents do not constitute "prior art" under United States law, the Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.


Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

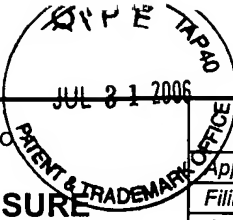
If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: July 31, 2006

By: 
Anthony M. Gutowski
Reg. No. 38,742



IDS Form PTO/SB/08: Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Complete if Known Application Number: 10/733,570 Filing Date: December 12, 2003 First Named Inventor: Weber Art Unit: 3747 Examiner Name: Mahmoud Gimie Attorney Docket Number: 08350.1649-02	
Sheet	1	of	2	

U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS					
Examiner Initials	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Issue or Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US 4,003,347	01-18-1977	Sasaki	
		US 6,234,123	05-22-2001	Iiyama et al.	
		US 6,575,129	06-10-2003	Almkvist et al.	
		US 6,951,211	10-04-2005	Bryant	

Note: Copies of the U.S. Patent Documents are not Required in IDS filed after October 21, 2004

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation ⁶
		AU B1-33 707/78	04-29-1982	Curtii		
		AU A-15966/83	06-20-1983	Furlonger		ABS
		FR 1,066,038	06-01-1954	Miller		YES
		DE 19905636	03-30-2000	Bischoff		
		JP 04031653 A	02-03-1992	Imamori et al.		YES
		JP 08158957 A	06-18-1996	Shimada et al.		YES
		JP 07-259655	10-09-1995			
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		JP 08-100662	04-16-1996	Kanesaka		YES
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		JP 08-326548	12-10-1996			
		JP 09-151737	06-10-1997			
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		JP 11-62639	03-05-1999			
		WO 99-42718	08-26-1999	Flynn et al.		
		WO 98-55744	12-10-1998	Lee et al.		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Document	Translation ⁶
		OKAMOTO, Kazuhisa et al., "Development of a High-Performance Gas Engine Operating at a Stoichiometric Condition-Effect of Miller Cycle and EGR", CIMAC Congress 1998, Pages 1345 - 1360.	
		OKAMOTO, Kazuhisa et al., "Effect of EGR on The Late Intake-Valve Closing Miller Cycle for Natural Gas Engines", JSAE 983420 Vol. 29, No. 2, April 1998, Pages 17 - 22.	
		RODA, Franco, "Variable Valve Timing - A Means of Optimizing Turbocharged Four-Stroke Diesel Engines", MTZ "Motortechnische Zeitschrift" (Engine Technology Magazine) 49, 1988, Pages 303 - 308.	YES (12 pages)
		AKIYAMA, Mamoru et al., "An Elegant Solution for Vehicular Diesel's Emission and Economy - Hybrid EGR System", SAE 960842, pages 1 - 5.	

IDS Form PTO/SB/08: Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		<i>Application Number</i>	10/733,570
		<i>Filing Date</i>	December 12, 2003
		<i>First Named Inventor</i>	Weber
		<i>Art Unit</i>	3747
		<i>Examiner Name</i>	Mahmoud Gimie
Sheet	2	of	2
		<i>Attorney Docket Number</i>	08350.1649-02

NON PATENT LITERATURE DOCUMENTS			
		OKAMOTO, Kazuhisa et al., "Development of a Late Intake-Valve Closing (LIVC) Miller Cycle for Stationary Natural Gas Engines - Effect of EGR Utilization", SAE 972948, 1997, pages 87 - 99.	
		ZHANG, Fu-Rong et al., "Methods of Increasing the BMEP (Power Output) for Natural Gas Spark Ignition Engines", SAE 981385, May 4-6, 1998, Pages 11 - 19.	
		ZHANG, Fu-Rong et al., "Improvement of BMEP for Natural Gas Fueled Spark Ignition Engines by Using Miller Cycle and EGR", JSAE 9834196 Vol. 29, No. 2, April 1998, Pages 11 - 16.	
		NAGUMO, Shinichi et al., "Study of Fuel Economy Improvement through Control of Intake Valve Closing Timing: Cause of Combustion Deterioration and Improvement", JSAE 9439311, JSAE Review 16 (1995), Pages 13 - 19.	
		"Optimierung von Arbeits- und Brennverfahren für grobere Dieselmotoren mit Common-Rail-Einspritzung", MTZ Motortechnische Zeitschrift 61(2000) 4, pages 248 - 257.	
		CLARKE, Damien et al., "The Simulation, Implementation and Analysis of the Miller Cycle Using an Inlet Control Rotary Valve", SAE Technical Paper Series 970336, February 24-27, 1997, Pages 61 - 70.	
		SAKAI, Hiroshi et al., "A New Type of Miller Supercharging System for High-Speed Engines - Part 1 Fundamental Considerations and Application to Gasoline Engines", SAE 851522, September 9 - 12, 1985, Pages 1 - 7.	
		NARUSAWA, Kazuyuki, "An EGR Control Method for Heavy-Duty Diesel Engines under Transient Operations", SAE Technical Paper Series 900444, February 26 - March 2, 1990, Pages 1 - 14.	
		GOULD, Larrie et al., "Electronic Valve Timing: The impact of electronic valve timing on engine 'breathing' produces performance capability radically different from any traditional internal combustion engine", SAE Automotive Engineering Vol. 99, Number 4, April 1991, pages 19 - 24.	
		TAYLOR, Charles Fayette, "The Internal-Combustion Engine in Theory and Practice: Vol. 1: Thermodynamics, Fluid, Flow, Performance", Second Edition, Revised, 1985, pages 8, 362, 392 - 394, 456 - 458, 489 - 491.	
		TAYLOR, Charles Fayette, "The Internal-Combustion Engine in Theory and Practice: Vol. 2: Combustion, Fuels, Materials, Design", Revised Edition, 1985, pages 7, 29 - 31, 71 - 72, 104, 117, 233 - 234, 367, 402 - 409, 422.	
		WADMAN, Bruce W., "Tandem Turbocharging Delivers 250 BMEP Rating", Diesel and Gas Turbine Progress, July 1967, Vol. 23, No. 7, pages 50 - 51.	
		WADMAN, Bruce W., "Nordberg Centrifugal Gas Compressor Unit", Diesel and Gas Engine Progress, April 1955, pages 24 - 26.	
		Office Action dated July 11, 2006 for U.S. Patent Application No. 10/992,125.	

Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.